MICROCOPY RESOLUTION TEST CHART

MICROCOPY RESOLUTION TEST CHART

[illegible] 10 '86

I 49.89/2:85(15) map B2

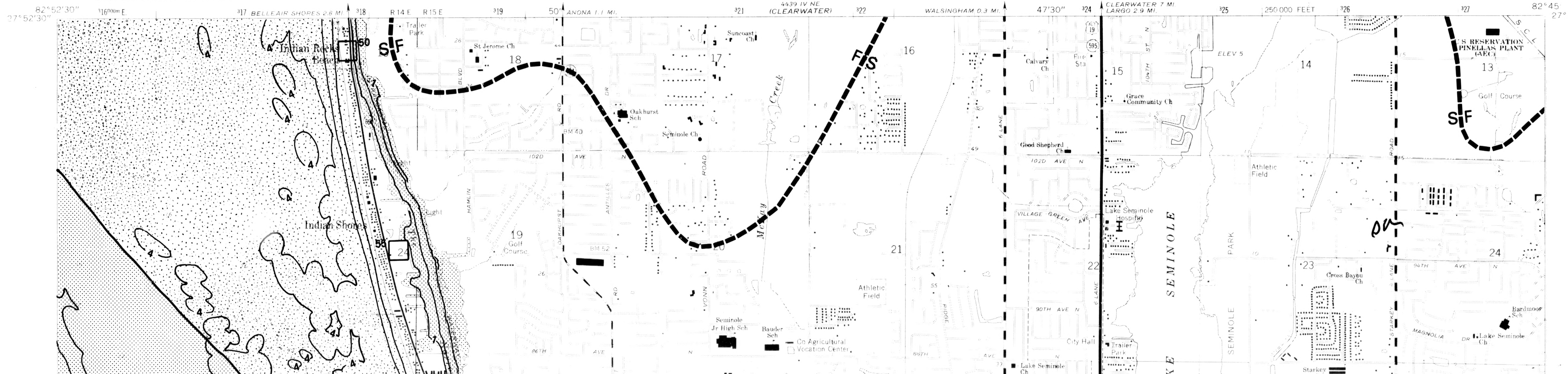
I 49.89/2:85 (15) map B2

ORIGINAL

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

STATE OF FLORIDA

SEMINOLE QUADRANGLE
FLORIDA–PINELLAS CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)



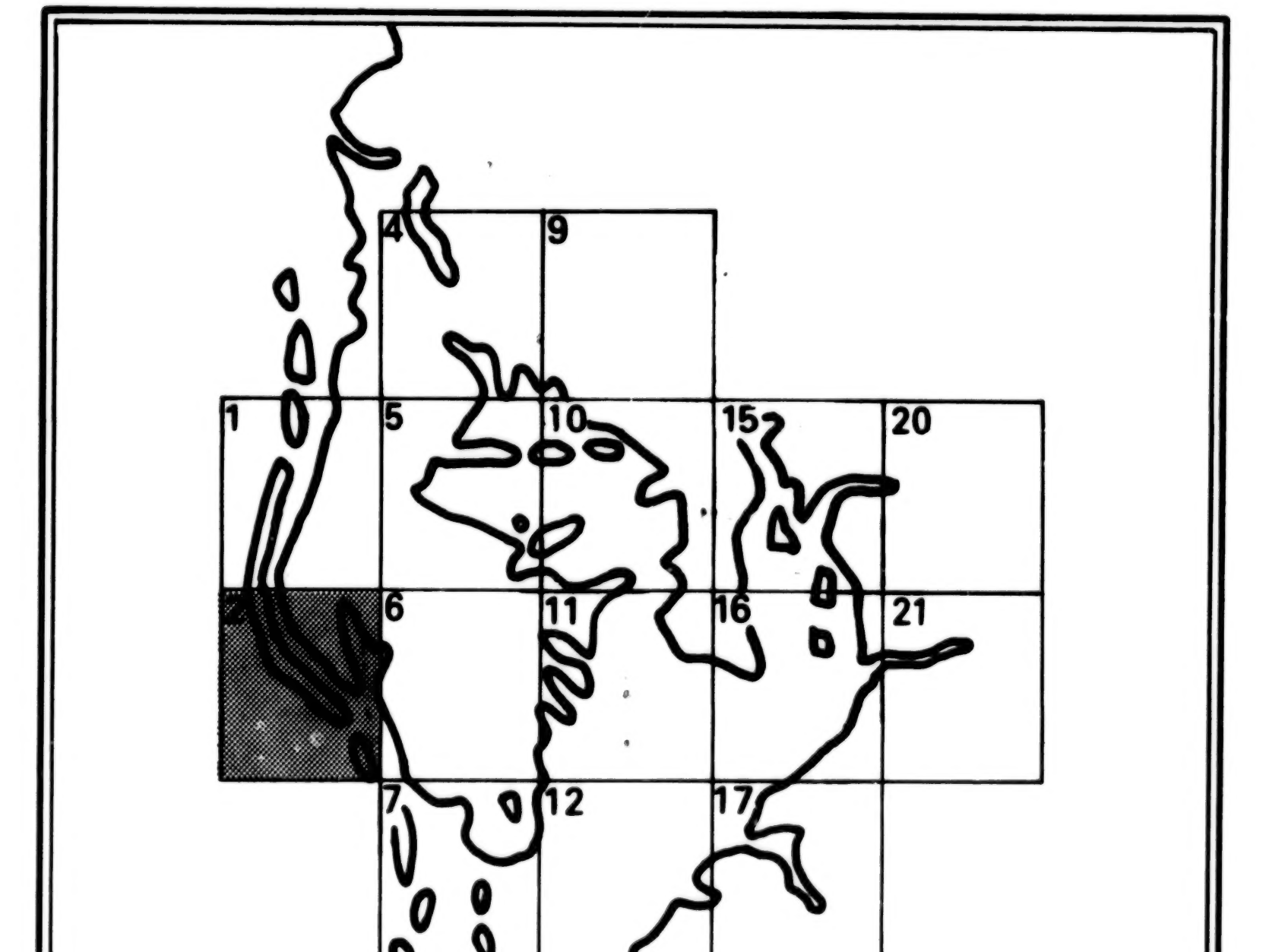
82°52'30"
27°52'30"
BELLEAIR SHORES 2.8 MI.
R 14 E
R 15 E
ANONA 1.1 MI.
(CLEARWATER)
WALSINGHAM 0.3 MI.
47'30"
CLEARWATER 7 MI.
LARGO 2.9 MI.
250 000 FEET
82°45'
27°52'30"
Indian Rocks
Indian Shores
S F
U.S. RESERVATION PINELLAS PLANT
SEMINOLE
16
14
15
13
18
19
21
22
23
24

MAP B2

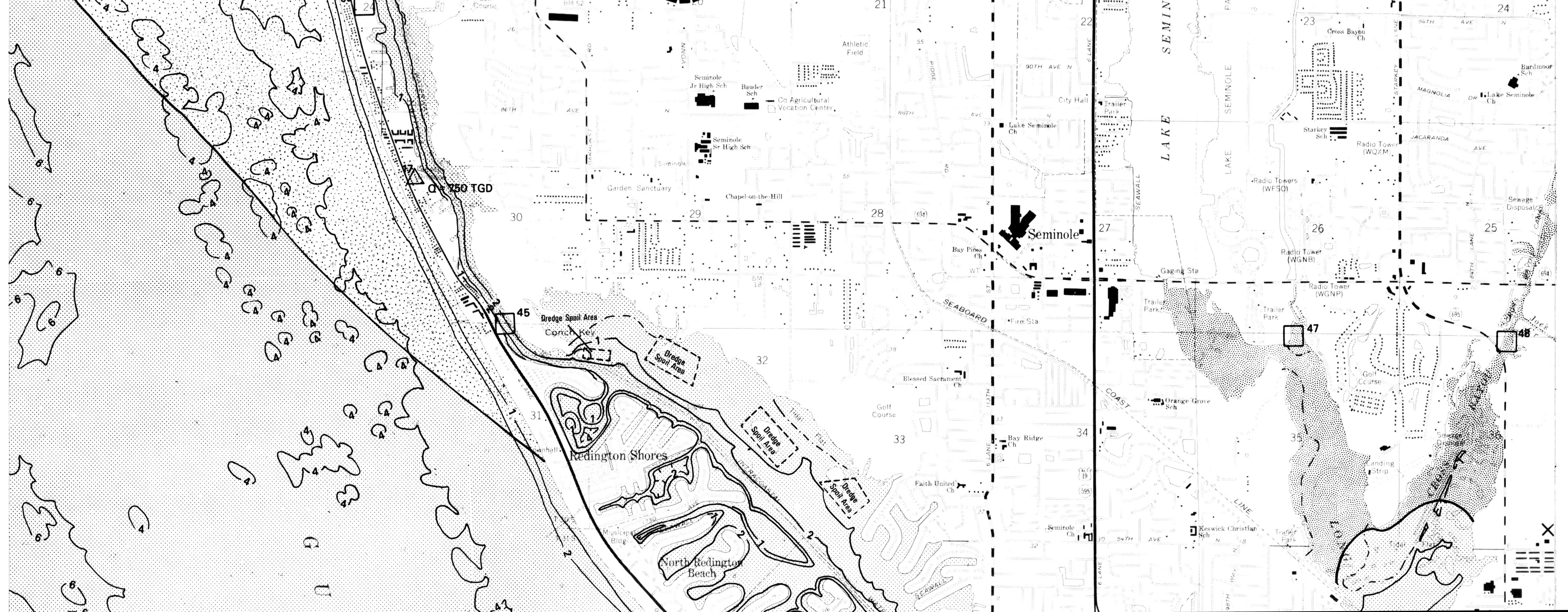
TAMPA BAY ENVIRONMENTAL ATLAS

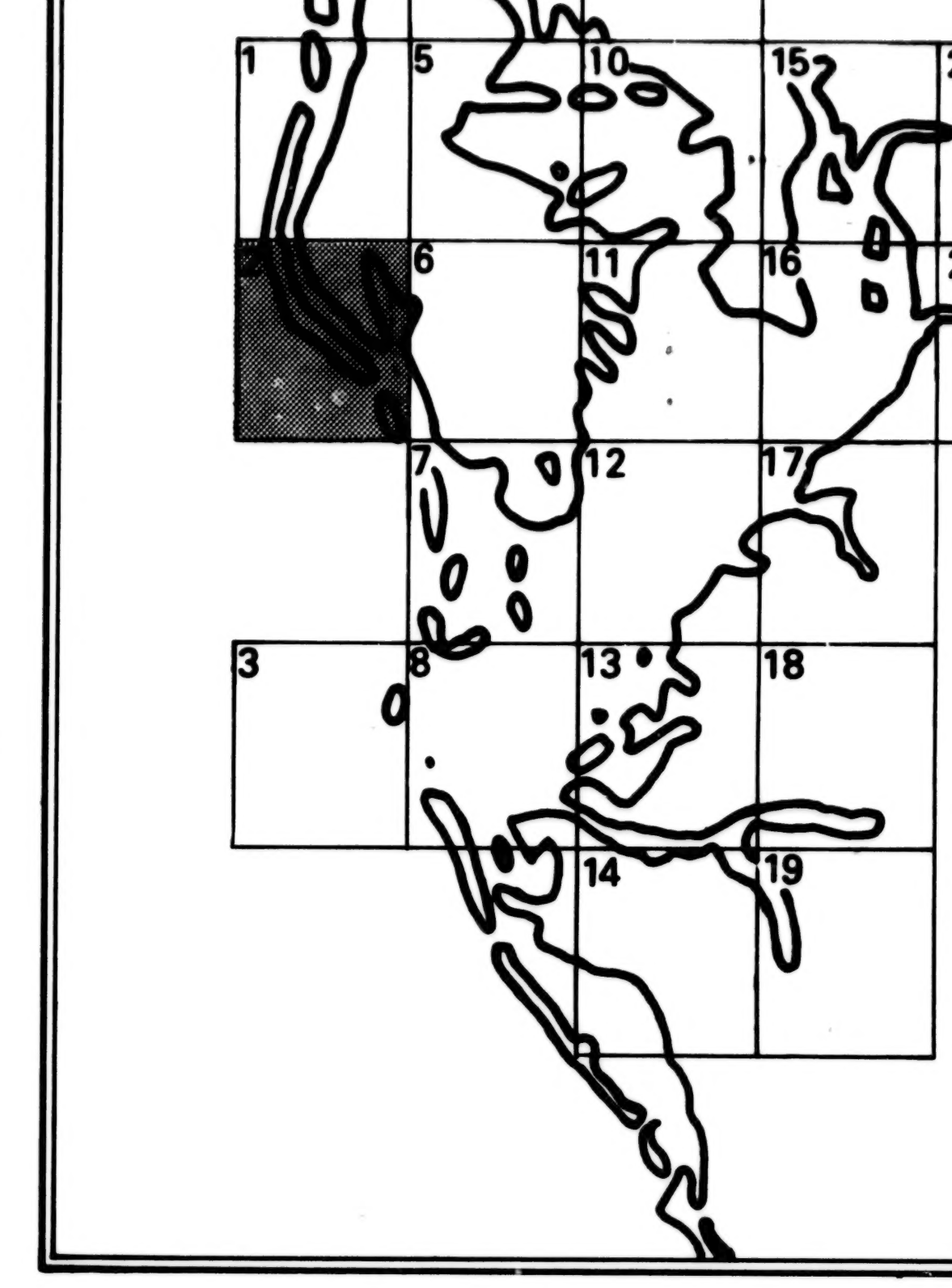
WATER RESOURCES

SEMINOLE



1
4
5
9
10
15
20
2
6
11
16
21
7
12
17


250 TGD
45
Dredge Spoil Area
Redington Shores
North Redington Beach
Seminole
LAKE SEMINOLE
47
48
21
22
23
24
25
26
27
28
29
30
32
33
34
35
36


20
21
12
17
18
3
5

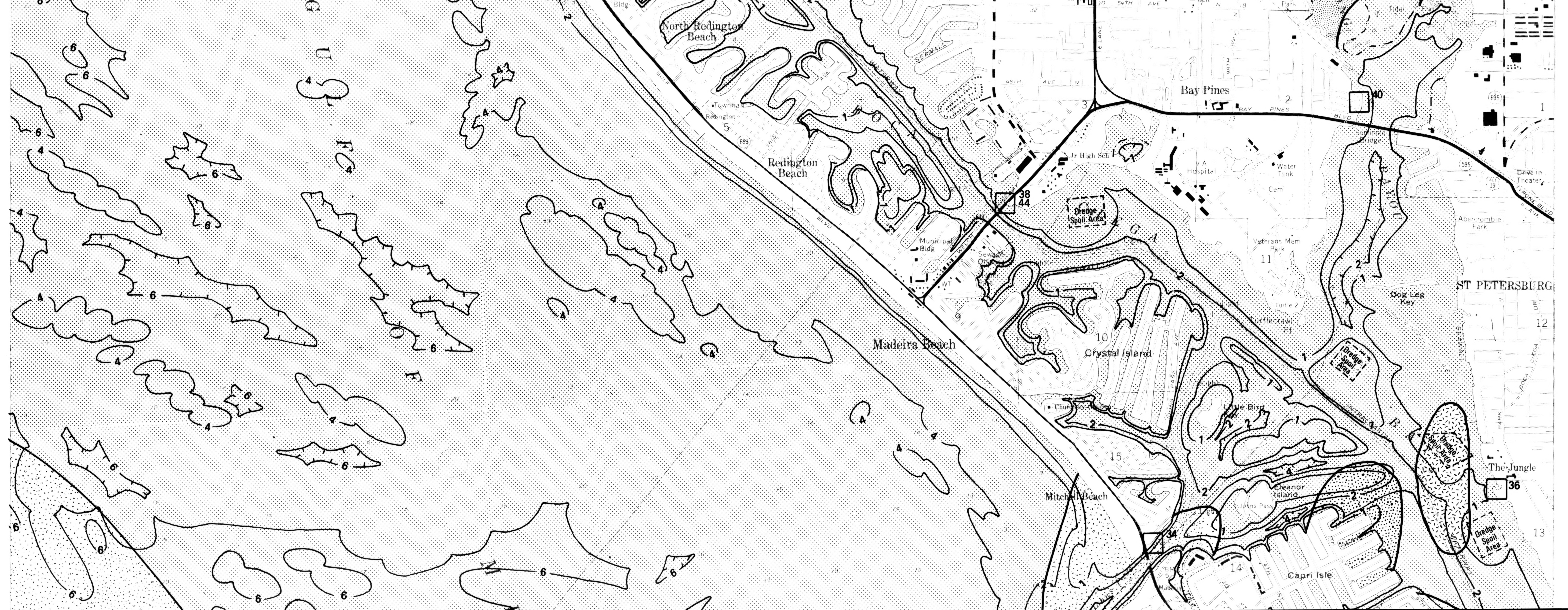
Scale 1:24,000

1984

TOPICAL MAPS IN THIS ATLAS:
A. BIOLOGICAL RESOURCES
B. WATER RESOURCES

Produced by U.S. Fish and Wildlife Service
Projection and 1,000 meter grid, zone 17: Universal Transverse Mercator
10,000-foot grid ticks based on Florida coordinate system, east and west zones

Overlay material compiled in 1984 from latest available data obtained from Federal, State and Local government agencies and other sources.


North Redington Beach
Redington Beach
Madeira Beach
Crystal Island
Bay Pines
ST PETERSBURG
Dog Leg Key
The Jungle
Capri Isle
Drive-in Theater
TYRONE BLVD
36
40
6
4

system, east and west zones

Overlay material compiled in 1984 from latest available data obtained from Federal, State and Local government agencies and other sources.

There is no map A19 due to a lack of data.

LEGEND

▪▪▪▪▪35▪▪▪▪▪ MEAN ANNUAL MID-DEPTH SPECIFIC CONDUCTIVITY ISOPLETH (WATER QUALITY) CONTOUR MAP

Five year mean annual specific conductivity
September 1978 - August 1983
(mmhos)

POINT SOURCE DISCHARGES *

▲10 Q= ___ Industrial Point Source Discharge. Q is permitted capacity in total gallons per day (tgd) or in millions of gallons per day (mgd).

△10 Q= ___ Municipal Point Source Discharge. Q is permitted capacity in total gallons per day (tgd) or millions of gallons per day (mgd).

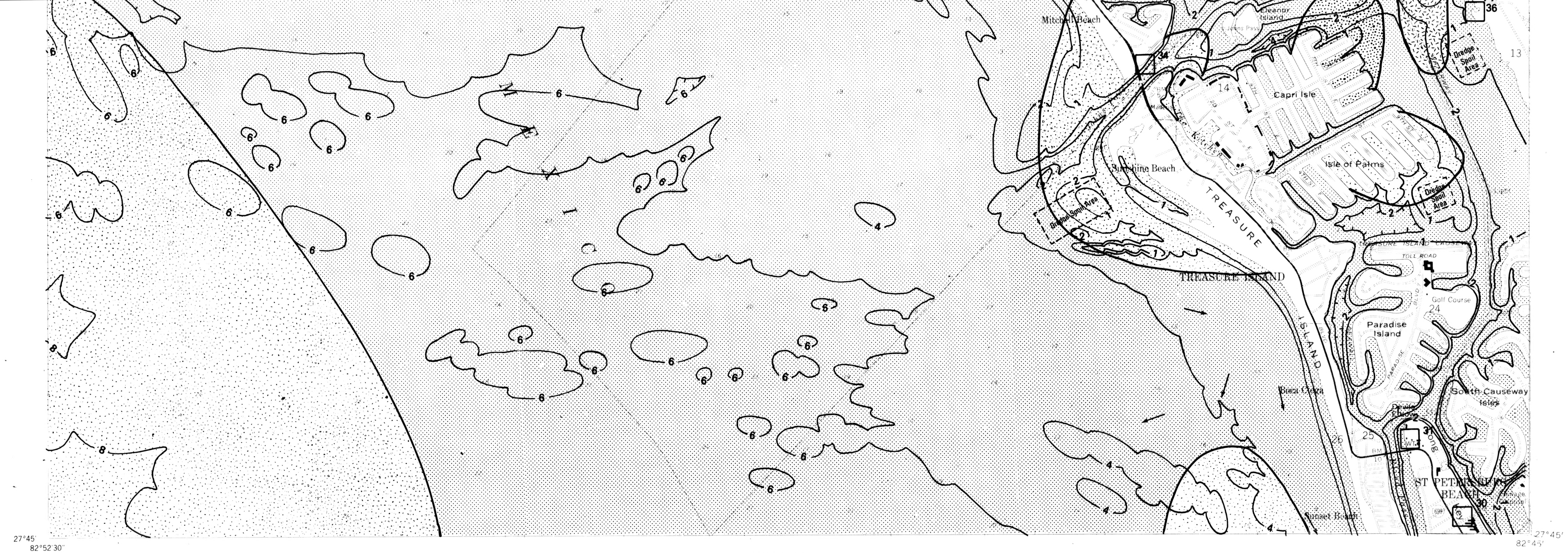
Dredge Spoil Area **DREDGE SPOIL DISPOSAL SITES**

TIDE STATION *
(National Ocean Service)

▣10 Active tide station. The tide station number is listed next to the symbol.

□10 Inactive tide station location. The tide station number is listed next to the symbol.

○10 **WATER QUALITY SAMPLING STATION ***
(Hillsborough County Environmental
Protection Commission)
Five year seasonal means, Sept. 1978 - Aug. 1983


Mitchell Beach
Eleanor Island
Johns Pass
Capri Isle
Isle of Palms
Sunshine Beach
The Kitchen
Dredge Spoil Area
TREASURE ISLAND
TREASURE ISLAND CAUSEWAY
TOLL ROAD
Golf Course
Paradise Island
South Causeway Isles
Devils Elbow
Boca Ciega
Sunset Beach
ST PETERSBURG BEACH
Sewage Disposal
34
36
31
30
13
14
24
25
26
27°45'
82°52'30"
82°45'

SCALE 1:24 000

1 ½ 0 1 MILE

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

THE TAMPA BAY ENVIRONMENTAL ATLAS WAS PRODUCED BY THE U.S. FISH AND

N.O.S. TIDE STATIONS: Index of tide stations for the state of

⊡ 10 Active tide station. The tide station number is listed next to the symbol.

☐ 10 Inactive tide station location. The tide station number is listed next to the symbol.

○ 10 WATER QUALITY SAMPLING STATION *
(Hillsborough County Environmental
Protection Commission)
Five year seasonal means, Sept. 1978 - Aug. 1983

——2—— BATHYMETRY

The contour interval is 2.0 meters with an initial 1.0 meter supplemental contour line added to better define shoals and inshore tidal flats.

–·–·–·–·– INTERTIDAL ZONE

This zone demarcates the area exposed and flooded by the tides and occurs between the line and the shore.

GENERALIZED SEDIMENT MAP

▨	Sand
▨	Shelly Sand
▨	Silty Sand
▨	Clayey Sand
▨	Sandy Clay
▨	Silt

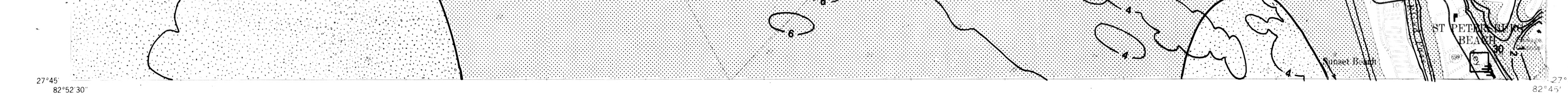
NET TIDAL CURRENT

Resultant tidal current. The direction is indicated by the arrow and the discharge range is feet per second

→	0.01 - 0.10 ft/sec
——→	0.11 - 0.20 ft/sec
———→	0.21 - 0.30 ft/sec
————→	0.31 - 0.50 ft/sec
—————→	> 0.50 ft/sec

F/S FRESHWATER/SALTWATER INTERFACE

(U.S. Geological Survey 1979)
250 mg/l line of equal chloride
concentration in the upper part



0.11 - 0.20 ft/sec

0.21 - 0.30 ft/sec

0.31 - 0.50 ft/sec

> 0.50 ft/sec

F / S **FRESHWATER/SALTWATER INTERFACE**

(U.S. Geological Survey 1979)
250 mg/l line of equal chloride
concentration in the upper part
of Floridan aquifer.

**Symbols appearing with numbers are described more fully in the narrative*

THE TAMPA BAY ENVIRONMENTAL ATLAS WAS PRODUCED BY THE U.S. FISH AND WILDLIFE SERVICE, DIVISION OF BIOLOGICAL SERVICES NATIONAL COASTAL ECOSYSTEMS TEAM (FWS/OBS) FOR COASTAL PLANNERS, DECISION MAKERS AND THE GENERAL PUBLIC, TO DETERMINE AND EVALUATE CHANGE AND TO RESOLVE CONFLICTS AMONG LAND USES, FISH AND WILDLIFE REQUIREMENTS, AND THE MAINTENANCE OF ECOLOGICAL DIVERSITY. THE STUDY AREA INCLUDES A MAJOR PORTION OF THE COASTAL COUNTIES OF PINELLAS, HILLSBOROUGH, MANATEE, AND A SMALL PORTION OF SARASOTA. THERE IS NO ATTEMPT, IN THE DESIGN OR PRODUCTS OF THIS STUDY, TO DEFINE THE LIMITS OF PROPRIETARY JURISDICTION OF ANY FEDERAL, STATE, OR LOCAL GOVERNMENT TO ESTABLISH THE GEOGRAPHICAL SCOPE OF THE REGULATORY PROGRAMS OF GOVERNMENT AGENCIES.

THIS MAP HAS BEEN COMPILED FROM A VARIETY OF SOURCE MATERIALS INCLUDING MAPS, AERIAL PHOTOS, AND REPORTS. SINCE MANY SOURCES CONTAINED GENERALIZED LOCATIONS OF RESOURCES AND OTHER MAPPED FEATURES, THE USER SHOULD NOT RELY ON THESE MAPS FOR PRECISE MEASUREMENTS OF DISTANCES OR AREAS.

PRIMARY SOURCES OF MAPPED INFORMATION

SALINITY: Conductivity for Tampa Bay water quality sampling stations Sept. 1978 - August 1983. Hillsborough County Environmental Protection Commission.

POINT SOURCE DISCHARGES: Computer printout of industrial and municipal point source discharges in West Central Florida. Florida Dept. of Environmental Regulation, 1983.

DREDGE SPOIL DISPOSAL AREAS: Dredge and Spoil easement location maps. Florida Dept. of Natural Resources.

N.O.S. TIDE STATIONS: Index of tide stations for the state of Florida. National Ocean Service, Rockville, Md. 1981.

WATER QUALITY: Total chlorophyll, conductivity, turbidity, temperature and total nitrogen data for Tampa Bay water quality stations, Sept. 1978 - August 1983. Hillsborough County Environmental Protection Commission.

BATHYMETRIC: Bathymetric map to St. Petersburg Quadrangle, N.O.S. 1978.

INTERTIDAL ZONE: Nautical Chart #'s 11410, 11413, 11414 and 11425. N.O.S., Rockville, Md. 1983.

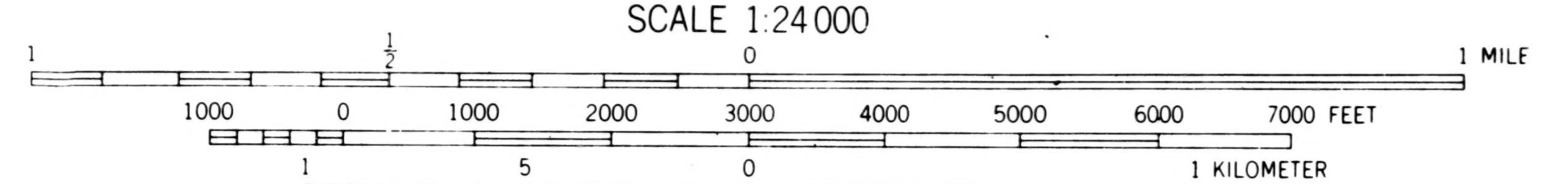
SEDIMENTS: Sediments, oceanographic observations and Floristic data for Tampa Bay, Florida and adjacent waters, 1961-1965, Taylor and Saloman, 1969.

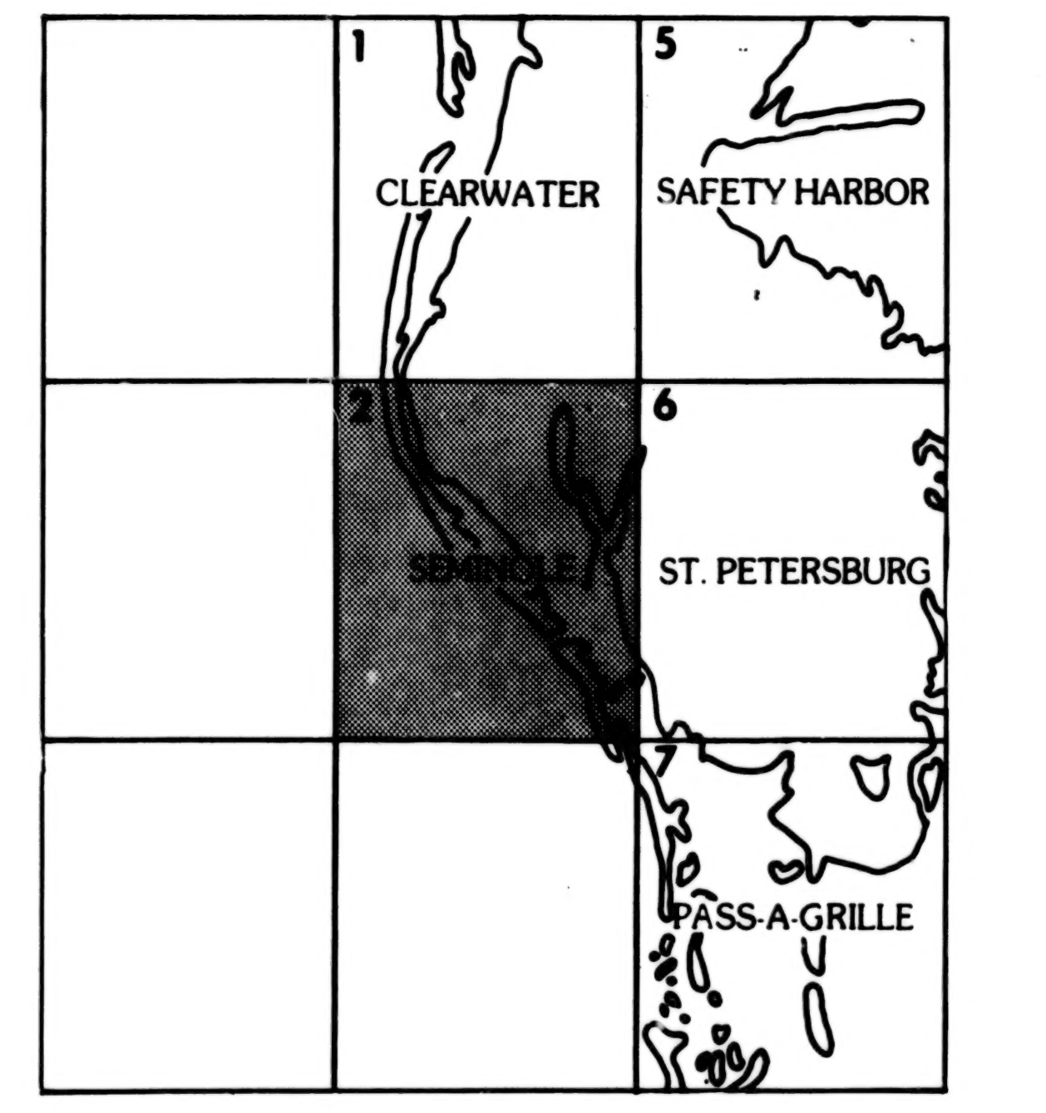
TIDAL CURRENTS: Changes in tidal flow, circulation and flushing caused by dredge and fill in Tampa Bay, Florida. U.S. Geological Survey Open File Report #84-447. Goodwin, 1984.

FRESHWATER-SALTWATER INTERFACE: Position of the Freshwater-Saltwater interface in the upper part of the Floridan aquifer, Southwest Florida, 1979. U.S.G.S. water resources open-file report 82-90. Causseaux and Fretwell, 1982.

FOR COMPLETE REFERENCE SEE MAP NARRATIVE

SCALE 1:24 000





Note: Specific conductivity values on the supplemental legend should be in µmhos.

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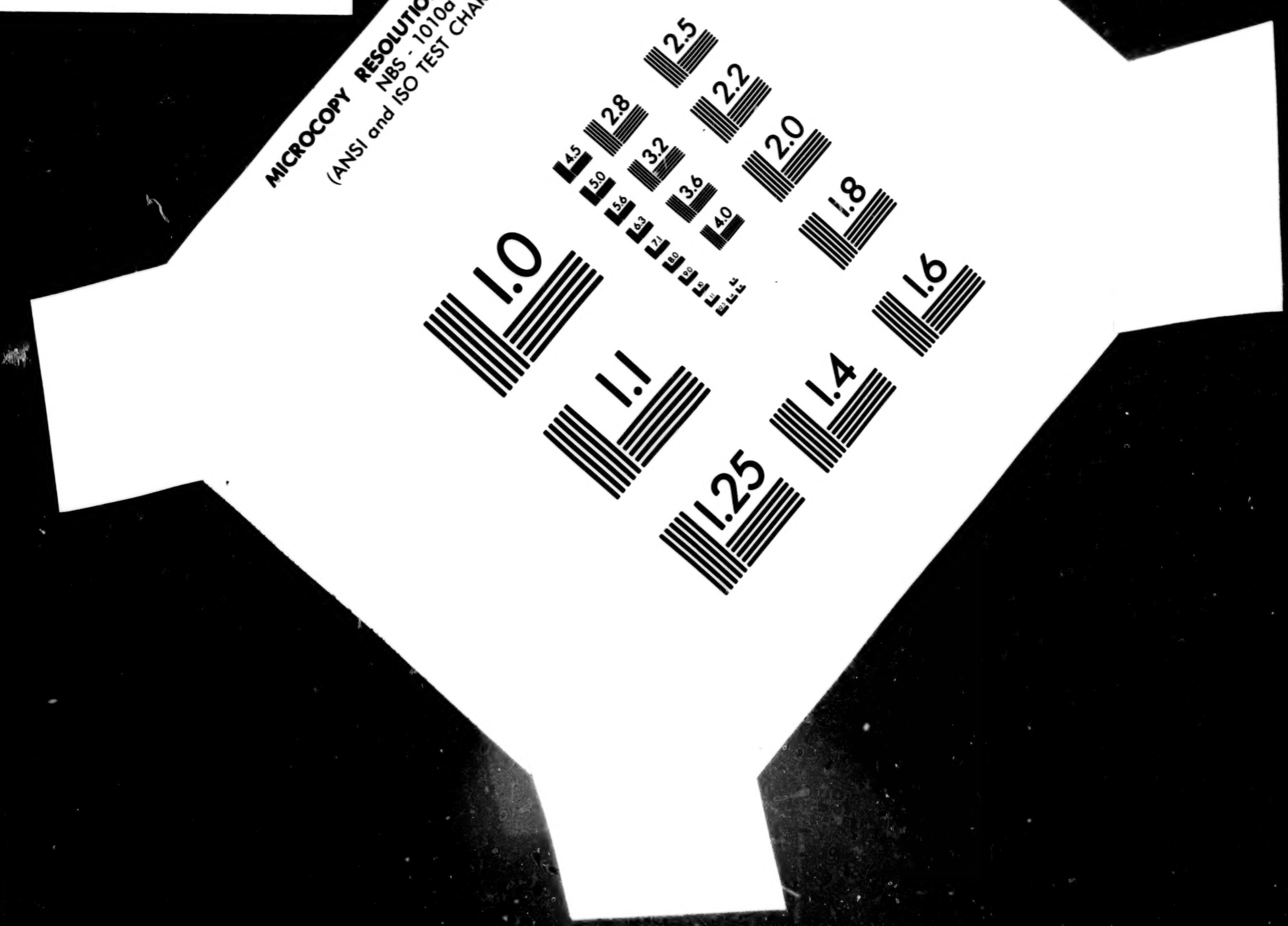
1.0
1.1
1.25
1.4
1.6


1.0
1.1
1.25
1.4
1.6